

Comment 47:

Comment: "A device that provides power to a mixing segment which may also carry data"

The definition is ambiguous: is it the device that may also carry data or the mixing segment?

My guess is that it is the mixing segment - but why is it necessary to state in this definition that a mixing segment can carry data?

Suggested Remedy: Delete "which may also carry data".

Proposed response to consider:

First, the answer to the question "is it the device that may also carry data or the mixing segment?": Yes (it is either).

Definition of mixing segment: A medium that may be connected to more than two Medium Dependent Interfaces.

Definition of Medium Dependent Interface (MDI): The mechanical and electrical or optical interface between the transmission medium and the MAU (e.g., 10BASE-T) or the PHY (e.g., 1000BASE-T) and also between the transmission medium and any associated (optional per IEEE Std 802.3, Clause 33, Clause 104, and Clause 145) Powered Device (PD) or Endpoint Power Sourcing Equipment (PSE).

So the MDI is a transmission medium, but MPoE can be provided absent data.

Definition of Power Sourcing Equipment (PSE): A DTE or midspan device that provides power to a single link section, which may also carry data (for 2 or 4 pair systems, see IEEE Std 802.3, Clause 33 and Clause 145; for single pair systems, see IEEE Std 802.3, Clause 104).

Clearly, we were simply trying to replicate PSE. Could it be as simple as adding the comma: Multidrop Power Sourcing Equipment (MPSE): A device that provides power to a mixing segment, which may also carry data (see IEEE Std 802.3, Clause 189).